Amendments to the Specification:

Insert the paper copy of the Sequence Listing filed herewith following the Abstract.

Please amend the paragraph beginning at page 1, line 20, as follows:

The amino acid sequence of the wild type *Fibrobacter succinogenes* 1,3-1,4-β-D-glucanase (SEQ ID NO: 1) and the nucleotide sequence (SEQ ID NO: 6) encoding it are listed below:

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ATGAACATCAAGAAAACTGCAGTCAAGAGCGCTCTCGCCGTAGCAGCCGCAGCAGCAGCC
 M  N  I  K  K  T  A  V  K  S  A  L  A  V  A  A  A  A  A  A   20

CTCACCACCAATGTTAGCGCAAAGGATTTTAGCGGTGCCGAACTCTACACGTTAGAAGAA
 L  T  T  N  V  S  A  K  D  F  S  G  A  E  L  Y  T  L  E  E   40

GTTCAGTACGGTAAGTTTGAAGCCCGTATGAAGATGGCAGCCGCATCGGGAACAGTCAGT
 V  Q  Y  G  K  F  E  A  R  M  K  M  A  A  A  S  G  T  V  S   60

TCCATGTTCCTCTACCAGAATGGTTCCGAAATCGCCGATGGAAGGCCCTGGGTAGAAGTG
 S  M  F  L  Y  Q  N  G  S  E  I  A  D  G  R  P  W  V  E  V   80

GATATTGAAGTTCTCGGCAAGAATCCGGGCAGTTTCCAGTCCAACATCATTACCGGTAAG
 D  I  E  V  L  G  K  N  P  G  S  F  Q  S  N  I  I  T  G  K  100

GCCGGCGCACAAAAGACTAGCGAAAAGCACCATGCTGTTAGCCCCGCCGCCGATCAGGCT
 A  G  A  Q  K  T  S  E  K  H  H  A  V  S  P  A  A  D  Q  A  120

TTCCACACCTACGGTCTCGAATGGACTCCGAATTACGTCCGCTGGACTGTTGACGGTCAG
 F  H  T  Y  G  L  E  W  T  P  N  Y  V  R  W  T  V  D  G  Q  140

GAAGTCCGCAAGACGGAAGGTGGCCAGGTTTCCAACTTGACAGGTACACAGGGACTCCGT
 E  V  R  K  T  E  G  G  Q  V  S  N  L  T  G  T  Q  G  L  R  160

TTTAACCTTTGGTCGTCTGAGAGTGCGGCTTGGGTTGGCCAGTTCGATGAATCAAAGCTT
 F  N  L  W  S  S  E  S  A  A  W  V  G  Q  F  D  E  S  K  L  180

CCGCTTTTCCAGTTCATCAACTGGGTCAAGGTTTATAAGTATACGCCGGGCCAGGGCGAA
 P  L  F  Q  F  I  N  W  V  K  V  Y  K  Y  T  P  G  Q  G  E  200

GGCGGCAGCGACTTTACGCTTGACTGGACCGACAATTTTGACACGTTTGATGGCTCCCGC
 G  G  S  D  F  T  L  D  W  T  D  N  F  D  T  F  D  G  S  R  220

TGGGGCAAGGGTGACTGGACATTTGACGGTAACCGTGTCGACCTCACCGACAAGAACATC
 W  G  K  G  D  W  T  F  D  G  N  R  V  D  L  T  D  K  N  I  240
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TACTCCAGAGATGGCATGTTGATCCTCGCCCTCACCCGCAAAGGTCAGGAAAGCTTCAAC
 Y  S  R  D  G  M  L  I  L  A  L  T  R  K  G  Q  E  S  F  N  260

GGCCAGGTTCCGAGAGATGACGAACCTGCTCCGCAATCTTCTAGCAGCGCTCCGGCATCT
 G  Q  V  P  R  D  D  E  P  A  P  Q  S  S  S  S  A  P  A  S  280

TCTAGCAGTGTTCCGGCAAGCTCCTCTAGCGTCCCTGCCTCCTCGAGCAGCGCATTTGTT
 S  S  S  V  P  A  S  S  S  S  V  P  A  S  S  S  S  A  F  V  300

CCGCCGAGCTCCTCGAGCGCCACAAACGCAATCCACGGAATGCGCACAACTCCGGCAGTT
 P  P  S  S  S  S  A  T  N  A  I  H  G  M  R  T  T  P  A  V  320

GCAAAGGAACACCGCAATCTCGTGAACGCCAAGGGTGCCAAGGTGAACCCGAATGGCCAC
 A  K  E  H  R  N  L  V  N  A  K  G  A  K  V  N  P  N  G  H  340

AAGCGTTATCGCGTGAACTTTGAACACTAA
 K  R  Y  R  V  N  F  E  H  *                                  349
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Please amend the paragraph beginning at page 6, line 10, as follows:

A nucleic acid was amplified from the full-length *Fibrobacter succinogenes* 1,3-1,4-β-D-glucanase (Fsβ-D-glucanase) cDNA (Chen et al. (2001), J. Biol. Chem. 276, 17895-17901) by the PCR using the following two primers: Oligo A: 5'-CAGCCGGCGATGGCCATGGTTAGC GCA-3' (SEQ ID NO: 17) and Oligo B: 5'-CTGCTAGAAGAATTCGGAGCAGGTTCGTC-3' (SEQ ID NO: 18). The amplified nucleic acid encodes a polypeptide that corresponds to a fragment from aa 24 to 272 of SEQ ID NO: 1, except that the N24 was replaced with M. The polypeptide lacks the C-terminal 78 aa of Fsβ-D-glucanase. To generate an expression vector, the amplified nucleic acid was digested with Nco I and Eco RI and then ligated into a pET26b(+) vector (Novagen, WI) that had been digested with the same enzymes. The resultant vector was confirmed by DNA sequencing. This construct, designated as pPCR-TF-glucanase, encodes a fusion protein (SEQ ID NO: 10) that has a *pel* B leading peptide sequence (KYLLPTAAAGLLLLAAQPAMA, SEQ ID NO: 11) at the N-terminus and a 19-residue segment (SEQ ID NO: 16) at the C-terminus. Once expressed in a host cell, the *pel* B leading peptide sequence was cleaved to generate a mature fusion truncated glucanase, PCR-TF-glucanase (SEQ ID NO: 9).

Please amend the paragraph beginning at page 6, line 25, as follows:

Another truncated Fsβ-D-glucanase (SEQ ID NO: 7), designated as "TF-glucanase," was created using PCR-based site-directed mutagenesis. This TF-glucanase lacks the just-described 19-residue segment at its C-terminus. To make a nucleic acid encoding it, a stop codon was introduced right after the codon for P248 of the just-described pPCR-TF-glucanase. A pair of complementary mutagenic primers were used. The sense strand primer has the sequence: 5'-CCTGCTCCG**TAA**TCGAGCTCC-3' (SEQ ID NO: 19). The mutagenesis was carried out in a PCR reaction mixture containing 10 mM KCl, 10 mM $(NH_4)_2SO_4$, 20 mM Tris-HCl (pH 8.8), 2 mM $MgCl_2$, 0.1% Triton$^R$ X-100, 0.1 mg/ml nuclease-free BSA, 10-15 ng of template DNA, 0.2 mM dNTPs, 0.25 μM each of the primers, and 2.5 units of Turbo *Pfu* DNA polymerase (Stratagene, La Jolla, CA). The PCR reactions were conducted on a Hybaid TouchDown thermal cycler using the following program: 2 min at 95°C, 16 cycles of 1 min at 55°C/13 min at 68 °C/45 sec at 95 °C. The products were digested with 10 units of Dpn I at 37 °C for 1 hour (h) and subsequently transformed into *E. coli* XL-1 Blue competent cells by electroporation. The transformed cells were grown on LB agar plates containing 30 μg/ml kanamycin at 37 °C until colonies appeared on the plates. The colonies were selected randomly and cultured in 5 ml LB/ kanamycin liquid culture at 37 °C for 16 h before plasmids were isolated from the culture using a QIAprep Spin Miniprep kit (Qiagene, Hilden, Germany). Mutation was confirmed by DNA sequencing. The plasmid thus obtained was named "pTF-glucanase."

Please amend the paragraph beginning at page 7, line 13, as follows:

A vector encoding a truncated glucanase having a Trp203→Phe (W203F) point mutation was generated by PCR based site-directed mutagenesis using the above described pPCR-TF-glucanase as the template in the same manner described above. A pair of complementary mutagenic primers were used. The sense strand primer was 5'-CTGGGGCAAGGGTGAC **TTC**ACATTTGACGGT -3' (SEQ ID NO: 20). The vector was augmented and prepared from *E. coli* XL-1 Blue, and confirmed by DNA sequencing. The vector and the polypeptide it encodes were designated as pPCR-TF-W203F and PCR-TF-W203F, respectively.

Please amend the paragraph beginning at page 7, line 21, as follows:

A *Pichia* expression vector that encodes a truncated glucanase was generated. Briefly, PCR was used to amplify the DNA sequence encoding V25 to P271 of SEQ ID NO: 1 from pPCR-TF-glucanase. The primers used were listed below:

Oligo C 5'-TACGCTGCAGTTAGCGCAAAGGATTTTAGC-3' (SEQ ID NO: 21) and

Oligo D 5'-TAGTTCTA GATCACGGAGCAGGTTCGTCATCTCTC-3' (SEQ ID NO: 22).